

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P558395

Luminaire Tested: **FUSL-12-4-LD4-3STD-50-UNV-80-94-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P558395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-4-LD4-3STD-50-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

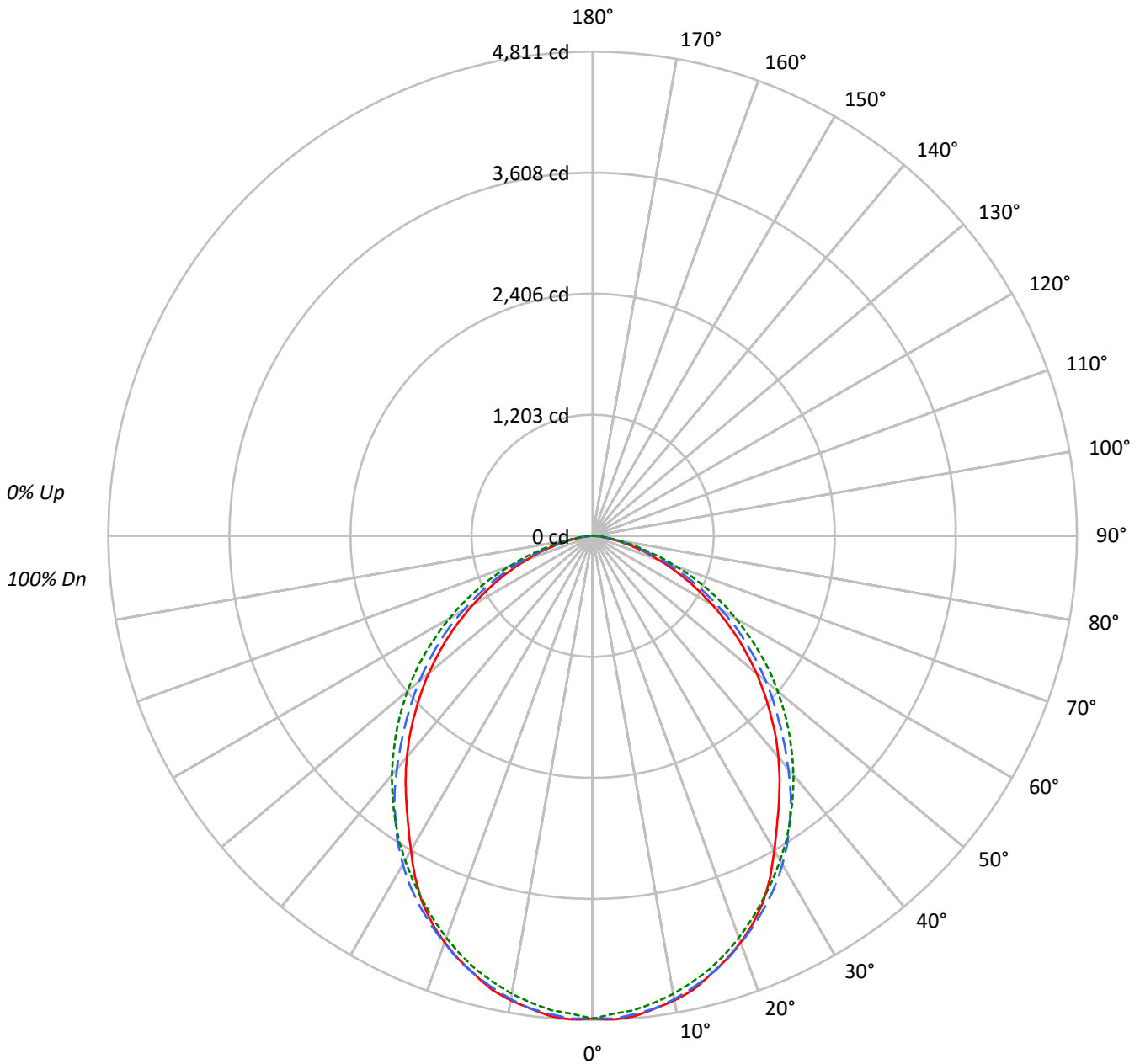
Lumens per Lamp: N/A
Luminaire Lumens: 11094.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12911	12911	12911
5°	12945	12891	12781
10°	12808	12773	12627
15°	12581	12581	12437
20°	12314	12330	12172
25°	11909	12057	11865
30°	11214	11718	11575
35°	10596	11232	11250
40°	10081	10625	10904
45°	9505	9982	10494
50°	8897	9406	10047
55°	8207	8751	9504
60°	7391	7986	8839
65°	6525	7100	8039
70°	5438	6047	6831
75°	4273	4829	5347
80°	3056	3398	3770
85°	1991	1991	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	4.1
10°-20°	1269.0	11.4
20°-30°	1854.5	16.7
30°-40°	2105.1	19.0
40°-50°	2032.1	18.3
50°-60°	1676.3	15.1
60°-70°	1116.3	10.1
70°-80°	499.5	4.5
80°-90°	89.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3575.3	32.2
0°-40°	5680.3	51.2
0°-60°	9388.8	84.6
0°-90°	11094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4798	4798	4798	4798	4798	
5°	4792	4790	4772	4746	4732	454
15°	4516	4527	4516	4496	4464	1273
25°	4011	4042	4061	4031	3996	1837
35°	3226	3270	3419	3438	3425	2021
45°	2498	2540	2623	2743	2757	1927
55°	1749	1779	1865	1968	2026	1561
65°	1025	1052	1115	1194	1263	1016
75°	411	433	464	487	514	449
85°	64	64	64	61	61	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4797.9	4797.9	4797.9	4797.9	4797.9
2.5°	4810.8	4812.6	4801.6	4772.1	4753.6
5°	4792.3	4790.5	4772.1	4746.3	4731.5
7.5°	4738.9	4742.6	4737.0	4700.2	4679.9
10°	4687.3	4689.1	4674.4	4644.9	4620.9
12.5°	4620.9	4619.1	4598.8	4584.1	4545.3
15°	4515.9	4526.9	4515.9	4495.6	4464.2
17.5°	4414.5	4414.5	4421.9	4386.8	4362.9
20°	4300.2	4305.7	4305.7	4278.1	4250.4
22.5°	4167.5	4184.1	4189.6	4160.1	4126.9
25°	4010.8	4042.2	4060.6	4031.1	3996.1
27.5°	3821.0	3868.9	3924.2	3902.1	3863.4
30°	3609.0	3679.0	3771.2	3752.8	3725.1
32.5°	3408.1	3478.1	3605.3	3597.9	3583.2
35°	3225.6	3269.8	3419.1	3437.6	3424.7
37.5°	3052.4	3092.9	3233.0	3275.4	3264.3
40°	2869.9	2914.1	3024.7	3100.3	3104.0
42.5°	2689.2	2731.6	2822.0	2930.7	2930.7
45°	2497.5	2539.9	2622.9	2742.7	2757.4
47.5°	2309.5	2353.8	2434.9	2554.7	2578.6
50°	2125.2	2165.8	2246.9	2363.0	2399.9
52.5°	1933.5	1977.8	2057.0	2163.9	2217.4
55°	1749.2	1778.7	1865.3	1968.5	2025.7
57.5°	1557.5	1585.2	1682.8	1771.3	1830.3
60°	1373.2	1408.2	1483.8	1574.1	1642.3
62.5°	1196.2	1233.1	1297.6	1376.9	1454.3
65°	1024.8	1052.5	1115.1	1194.4	1262.6
67.5°	858.9	882.9	945.6	1000.9	1072.7
70°	691.2	722.5	768.6	822.1	868.2
72.5°	556.6	569.6	608.3	647.0	694.9
75°	411.0	433.2	464.5	486.6	514.3
77.5°	294.9	307.8	326.2	344.7	370.5
80°	197.2	202.8	219.3	223.0	243.3
82.5°	119.8	123.5	127.2	129.0	136.4
85°	64.5	64.5	64.5	60.8	60.8
87.5°	36.9	36.9	31.3	25.8	18.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)